

DERWENT-ACC-NO: 1992-227674

DERWENT-WEEK: 200313

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TITLE: Electronic identification system for vehicles, people, animals etc. - has transponder responsive to respective interruption in interrogation signal to stop response signal transmission

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PATENT-ASSIGNEE: CSIR[COUL] , BTG INT LTD[BTGIN], BRITISH TECHNOLOGY GROUP LTD[BRTEN]

PRIORITY-DATA: 1991ZA-0005733 (July 22, 1991) , 1991ZA-0000078 (January 4, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 494114 A2</u>	July 8, 1992	E	015	G07C 009/00
AU 9210006 A	July 9, 1992	N/A	000	G08B 013/24
CA 2058692 A	July 5, 1992	N/A	000	G01S 013/74
ZA 9200039 A	October 28, 1992	N/A	027	G01S 000/00
<u>EP 494114 A3</u>	December 23, 1992	N/A	000	G07C 009/00
AU 658857 B	May 4, 1995	N/A	000	G08B 013/24
US 5537105 A	July 16, 1996	N/A	015	G07C 009/00
<u>EP 494114 B1</u>	November 27, 1996	E	021	G07C 009/00
DE 69215388 E	January 9, 1997	N/A	000	G07C 009/00
ES 2099792 T3	June 1, 1997	N/A	000	G07C 009/00
SG 48423 A1	April 17, 1998	N/A	000	G07C 009/00
US 5966083 A	October 12, 1999	N/A	000	H04Q 007/00
US 5995017 A	November 30, 1999	N/A	000	H04Q 007/00
CA 2058692 C	February 8, 2000	E	000	G01S 013/74
JP 3100716 B2	October 23, 2000	N/A	015	G01S 013/74

DESIGNATED-STATES: AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE AT BE CH DE DK  
ES FR GB GR IT LI LU NL PT SE

CITED-DOCUMENTS: No-SR.Pub; EP 161779 ; EP 285419 ; EP 301127 ; EP 405695 ; GB 2116808

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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EP 494114A2	N/A	1992EP-0300041	January 3, 1992
AU 9210006A	N/A	1992AU-0010006	January 2, 1992
CA 2058692A	N/A	1992CA-2058692	January 2, 1992
ZA 9200039A	N/A	1992ZA-0000039	January 3, 1992
EP 494114A3	N/A	1992EP-0300041	January 3, 1992
AU 658857B	N/A	1992AU-0010006	January 2, 1992
AU 658857B	Previous Publ.	AU 9210006	N/A
US 5537105A	N/A	1992US-0816893	January 3, 1992
EP 494114B1	N/A	1992EP-0300041	January 3, 1992
DE 69215388E	N/A	1992DE-0615388	January 3, 1992
DE 69215388E	N/A	1992EP-0300041	January 3, 1992
DE 69215388E	Based on	EP 494114	N/A
ES 2099792T3	N/A	1992EP-0300041	January 3, 1992
ES 2099792T3	Based on	EP 494114	N/A
SG 48423A1	N/A	1996SG-0009578	January 3, 1992
US 5966083A	Cont of	1992US-0816893	January 3, 1992
US 5966083A	Cont of	1996US-0581798	January 2, 1996
US 5966083A	N/A	1997US-0976948	November 24, 1997
US 5966083A	Cont of	US 5537105	N/A
US 5995017A	Cont of	1992US-0816893	January 3, 1992
US 5995017A	Cont of	1996US-0581791	January 2, 1996
US 5995017A	N/A	1997US-0976949	November 24, 1997
US 5995017A	Cont of	US 5537105	N/A
CA 2058692C	N/A	1992CA-2058692	January 2, 1992
JP 3100716B2	N/A	1991JP-0346821	December 27, 1991
JP 3100716B2	Previous Publ.	JP 4315081	N/A

INT-CL (IPC): G01S000/00, G01S013/74, G06K007/08, G06K007/10, G06K019/067, G07C009/00, G08B013/24, G09F003/02, H04Q007/00

RELATED-ACC-NO: 1996-012592, 2003-131236

ABSTRACTED-PUB-NO: EP 494114A

#### BASIC-ABSTRACT:

The identification system includes an interrogator and a number of transponders. The interrogator includes a transmitter (10), a receiver (16,18,20,22) and a processor (28) for indentifying the transponder from data in the response signal. Each transponder includes a receiving antenna, a code generator, and a transmitting antenna.

A modulator is connected to the code generator so that on receipt of the interrogation signal from the interrogator the transponder transmits a response signal. The response signal contains data identifying the transponder. The transponder repeats transmission of the response signal to increase probability of successful reception by the interrogator.

USE/ADVANTAGE - Uses transponders which can be produced at relatively low cost, making it possible for use in e.g. automatic stock control system for relatively low cost articles.

ABSTRACTED-PUB-NO: EP 494114B

#### EQUIVALENT-ABSTRACTS:

An identification system comprising an interrogator and a plurality of transponders, the interrogator including transmitter means (10) for transmitting an interrogation signal to the transponders, receiver means (16, 18, 20, 22) for receiving response signals from the transponders, and processor means (28) for identifying transponders from data in the response signals each transponder comprising a receiving antenna (30) for receiving the interrogation signal, a code generator (36), a transmitting antenna (32), and a modulator (40) connected to the code generator, so that on receipt of the interrogation signal the transponder transmits a response signal containing data which identifies the transponder, the transponder being adapted to repeat the transmission of the response signal to increase the probability of successful reception thereof by the interrogator characterised in that the interrogator is adapted to detect successful identification of any transponder and to interrupt the interrogation signal to indicate successful identification.

US 5537105A

An identification system comprising an interrogator and a plurality of transponders, the interrogator including transmitter means for transmitting an interrogation signal to the plurality of transponders and further for transmitting disabling signals to the plurality of transponders, receiver means for receiving response signals from any of the plurality of transponders, and processor means for identifying any transponder from data in its response signal; each transponder comprising receiving means for receiving the interrogation signal, a code generator for generating data identifying the transponder, transmitting means, connected to the code generator, so that on receipt of the interrogation signal each transponder transmits a response signal containing identification data, and control means including monitoring means for detecting a disabling signal from the interrogator; the interrogator being adapted to receive a response signal from any transponder, to determine whether the response signal has been validly received and thus to identify the transponder transmitting the response signal which has been validly received, and to transmit a disabling signal to the transponders just after such identification, the disabling signal being ignored by all of the transponders except that one which has completed transmission of its response signal a predetermined time before receipt of the disabling signal, the control means of that one transponder responding to the disabling signal to disable the transmitter means of the transponder temporarily.

US 5966083A

The identification system includes an interrogator and a number of transponders. The interrogator includes a transmitter (10), a receiver (16,18,20,22) and a processor (28) for identifying the transponder from data in the response signal. Each transponder includes a receiving antenna, a code generator, and a transmitting antenna.

A modulator is connected to the code generator so that on receipt of the interrogation signal from the interrogator the transponder transmits a response signal. The response signal contains data identifying the transponder. The transponder repeats transmission of the response signal to increase probability of successful reception by the interrogator.

USE/ADVANTAGE - Uses transponders which can be produced at relatively low cost, making it possible for use in e.g. automatic stock control system for relatively low cost articles.

US 5995017A

The identification system includes an interrogator and a number of transponders. The interrogator includes a transmitter (10), a receiver (16,18,20,22) and a processor (28) for identifying the transponder from data in the response signal. Each transponder includes a receiving antenna, a code generator, and a transmitting antenna.

A modulator is connected to the code generator so that on receipt of the interrogation signal from the interrogator the transponder transmits a response signal. The response signal contains data identifying the transponder. The transponder repeats transmission of the response signal to increase probability of successful reception by the interrogator.

USE/ADVANTAGE - Uses transponders which can be produced at relatively low cost, making it possible for use in e.g. automatic stock control system for relatively low cost articles.

CHOSEN-DRAWING: Dwg.2/14 Dwg.1/14 Dwg.5/13

TITLE-TERMS: ELECTRONIC IDENTIFY SYSTEM VEHICLE PEOPLE ANIMAL  
TRANSPONDER

RESPOND RESPECTIVE INTERRUPT INTERROGATION SIGNAL STOP  
RESPOND  
SIGNAL TRANSMISSION

DERWENT-CLASS: P85 T05

EPI-CODES: T05-D01; T05-G02B1A;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1992-173086

